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RESULT 1-US-09-497-967-5									
Sequence 5 ; Application US/09497967									
GENERAL INFORMATION:									
; APPLICANT: Clark, Theodore G.									
; APPLICANT: Dickerson, Jr., Harry W.									
; APPLICANT: Lin, Tian-Long									
; TITLE OF INVENTION: ICHTHYOPHTHLIRUS									
; FILE REFERENCE: 235 .00170101									
; CURRENT APPLICATION NUMBER: US/09/497,967									
; PRIORITY APPLICATION NUMBER: 60/131,121									
; PRIORITY FILING DATE: 1999-04-27									
; PRIORITY APPLICATION NUMBER: 60/118,634									
; PRIORITY FILING DATE: 1999-02-04									
; PRIORITY APPLICATION NUMBER: 60/122,372									
; PRIORITY FILING DATE: 1999-03-02									
; PRIORITY APPLICATION NUMBER: 60/124,905									
; PRIORITY FILING DATE: 1999-03-17									
; NUMBER OF SEQ ID NOS: 102									
; SOFTWARE: Patentlin Ver. 2.1									
; SEQ ID NO 5									
; LENGTH: 1404									
; TYPE: DNA									
; ORGANISM: Artificial Sequence									
; FEATURE: Best Local Similarity 100.0% ; Pred. No. 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;									
; OTHER INFORMATION: Description of Artificial Sequence: synthetic									
; OTHER INFORMATION: 55kd i-antigen coding region									
US-09-497-967-5									
; Sequence 1-DNA									
; Sequence 1-DNA									
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; Sequence									

Db	1201	TCTGAGTGTGTGAAGATGTGGCTACTACCAAGAACCCACTTACACCAAGAACCCACTGTGGTTGGGT	1260
Qy	1261	GGAATGACACCTGTACCTCTGTAAAGAAGCTGACCTCTGGAGCAGGCTAACCTG	1320
Db	1261	GGAATGACACCTGTACCTCTGTAAAGAAGCTGACCTCTGGAGCAGGCTAACCTG	1320
Qy	1321	CCTGAGTCGTCTAAAGAACATCCAGTGACTCTGTAACCTCTGCTAACAGAACCTGT	1380
Db	1321	CCTGAGTCGTCTAAAGAACATCCAGTGACTCTGCTAACAGAACCTGT	1380
Qy	1381	CTGCGATCTCTTACACTCTGCTG	1404
Db	1381	CTGCGATCTCTTACACTCTGCTG	1404
<b>RESULT 2</b>			
	US-09-497-967-1-02	Sequence 102; Application US/09497967	
		GENERAL INFORMATION:	
		APPLICANT: Clark, Theodore G.	
		APPLICANT: Dickerson, Jr., Harry W.	
		APPLICANT: Lin, Tian-Long	
		TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF TITLE OF INVENTION: ICTHYOPHTHIRIUS	
		FILE REFERENCE: 235-00170101	
		CURRENT APPLICATION NUMBER: US/09/497, 967	
		CURRENT FILING DATE: 2000-02-04	
		PRIOR APPLICATION NUMBER: 60/131, 121	
		PRIOR FILING DATE: 1999-04-27	
		PRIOR APPLICATION NUMBER: 60/118, 634	
		PRIOR FILING DATE: 1999-02-04	
		PRIOR APPLICATION NUMBER: 60/122, 372	
		PRIOR FILING DATE: 1999-03-02	
		PRIOR APPLICATION NUMBER: 60/124, 905	
		PRIOR FILING DATE: 1999-03-17	
		NUMBER OF SEQ ID NOS: 102	
		SOFTWARE: PatentIn Ver. 2.1	
		SEQ ID NO: 102	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Description of Artificial Sequence: synthetic	
		OTHER INFORMATION: 55kd I-antigen coding region	
		US-09-497-967-102	
		Query Match 100 0%; Score 1404; DB 18; Length 1410;	
		Best Local Similarity 100 0%; Pred. No. 0;	
		Matches 1404; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
Qy	1	ATGAAAGAACACATCTGGTGGATCCGTATCTGTATCAACAGATAAGCT	60
Db	1	ATGAAAGAACACATCTGGTGGATCCGTATCTGTATCAACAGATAAGCT	60
Qy	61	GCTAACTGTCTGTGGAAACCCGTTGGACAGGTGGACCTGGAAAC	120
Db	61	GCTAACTGTCTGTGGAAACCCGTTGGACAGGTGGACCTGGAAAC	120
Qy	121	CCTGCCTAACGTGTGAACCTGTCTGAAACTCTCTACTACAAACAGCTGCTGCTAAC	180
Db	121	CCTGCCTAACGTGTGAACCTGTCTGAAACTCTCTACTACAAACAGCTGCTGCTAAC	180
Qy	181	CCTGGAGCTCTTACCTGTACCCCTGTCTCATGAAAGAACCTGTCTGCTAAC	240
Db	181	CCTGGAGCTCTTACCTGTACCCCTGTCTCATGAAAGAACCTGTCTGCTAAC	240
Qy	241	CCTCTGGTACCGTACCGTACCGTAACTGTGCTAACCTGAAACTGTGCTAAC	300
Db	241	CCTCTGGTACCGTACCTGGTACCCCTGTCTCATGAAAGAACCTGTCTGCTAAC	300
Qy	301	ATCGTGGAGGAGGACTACCGTACCGTACCTGCTAACCTGAAACTGTGCTAAC	360
Db	301	ATCGTGGAGGAGGACTACCGTACCGTACCTGCTAACCTGAAACTGTGCTAAC	360

RESULT 3  
 US-09-497-967-53  
 Sequence 53, Application US/09497967  
 GENERAL INFORMATION:  
 APPLICANT: Clark, Theodore G.  
 APPLICANT: Lin, Tian-Long , Harry W.  
 TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
 TITLE OF INVENTION: ICHTHYOPHTHIRIUS  
 FILE REFERENCE: 235.00170101  
 CURRENT APPLICATION NUMBER: US/09/497, 967  
 CURRENT FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: 60/131,121  
 PRIOR FILING DATE: 1999-04-27  
 PRIOR APPLICATION NUMBER: 60/118, 634  
 PRIOR FILING DATE: 1999-02-04  
 PRIOR APPLICATION NUMBER: 60/122,372  
 PRIOR FILING DATE: 1999-03-02  
 PRIOR APPLICATION NUMBER: 60/124, 905  
 PRIOR FILING DATE: 1999-03-17  
 NUMBER OF SEQ ID NOS: 102  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO: 53  
 LENGTH: 1404  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: synthetic G5  
 OTHER INFORMATION: Proline mutant i-antigen  
 US-09-497-967-53

	Query Match	Score 1400..8;	DB 18;	Length 1404;
Qy	Best Local Similarity 99.9%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0			
Db	Matches 1402; Conservative 0;			
Qy	1 ATGAAAGAACATCTCGTGTGATCCGTATCCTCTGTTCATCAACAGATAAAGCT 60			
Db	1 ATGAAAGAACATCCGGTGTGATCCGTATCCTCTGTTCATCAACAGATAAAGCT 60			
Qy	61 GCTAATCTGMCCTGGAAACCGAACGAAACACCCTGTCGACAGTTGGACGACCTTGGAACCC 120			
Db	61 GCTAATCTGTCCTGGAAACCGAACGAAACACCCTGTCGACAGTTGGACGACCTTGGAACCC 120			
Qy	121 CCTGDTAACTGTGAACTGTGAGAAACTCTACTACAAACAAGCTGCTGCTGGTCTGGTG 180			
Db	121 CCTGDTAACTGTGNGAACGTGTCGAGAAACTCTACTACAAACAACCTGCTGCTGGTG 180			
Qy	181 CCTGGAGCTCTACCTGTACCCCTGTCTCAGAAGAGGAGCTGAGCTCAGCTAAC 240			
Db	181 CCTGGAGCTCTACCTGTACCCCTGTCTCAGAAGAGGAGCTGAGCTCAGCTAAC 240			
Qy	241 CCTCTGCTAACCTGGTAACCTGGTAACCCAGTGAACCTGAAGTCTGCTGGAAACCGCT 300			
Db	241 CCTCTGCTAACCTGGTAACCCAGTGAACCTGAAGTCTGCTGGAAACCGCT 300			
Qy	301 ATCGCTGGAGGAGCTACCGACTGCTGCTCATACATACCGAGTGTGAACTGTGCATC 360			
Db	301 ATCGCTGGAGGAGCTACCGACTGCTGCTCATACATACCGAGTGTGAACTGTGCATC 360			
Qy	361 AACTTCTACACGAAACGCTTAACCTGAGCTGCTAACCTGAGCTCTACCTGAGCTTG 420			
Db	361 AACTTCTACACGAAACGCTTCACCTGAGCTGCTAACCTGAGCTCTACCTGAGCTTG 420			
Qy	421 CCTGTGAACCCGCTGGAGGAGCTGCTGAGCTGCTAACCTGAGCTCTACCTGAGCTTG 480			
Db	421 CCTGTGAACCCGCTGGAGGAGCTGCTGAGCTGCTAACCTGAGCTCTACCTGAGCTTG 480			
Qy	481 TGTAACTGTGCTTGTCTACCGGAACCCGCTCTGGAGAGCTACCCGACTACTGTG 540			
Db	481 TGTAACTGTGCTTGTCTACCGGAACCCGCTCTGGAGAGCTACCCGACTACTGTG 540			
Qy	541 CGCTCTTCACCGAGTGTGTAAGTGTGCTAACCTGAGCTAACCTCTACTACAAACGGGA 600			

RESULT 4  
US-09/497-967-3  
Sequence 3, Application US/09497967  
; GENERAL INFORMATION:  
; APPLICANT: Clark, Theodore G.  
; APPLICANT: Dickerson, Jr., Harry W.  
; APPLICANT: Lin, Tian Long  
; TITLE OF INVENTION: ICHTHIOPHYTIRIUS  
; TITLE OF INVENTION: ICHTHIOPHYTIRIUS  
; FILE NUMBER: 235-00170101  
; CURRENT APPLICATION NUMBER: US/09/497, 967  
; CURRENT FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/131,121

PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/118,634  
; PRIOR FILING DATE: 1999-02-04  
; PRIOR APPLICATION NUMBER: 60/122,372  
; PRIOR FILING DATE: 1999-03-02  
; PRIOR APPLICATION NUMBER: 60/124,905  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 3  
; LENGTH: 1404  
; TYPE: DNA  
; ORGANISM: Ichthyophthirius multifiliis  
; US-09-497-967-3

Query Match 55.7%; Score 782.6; DB 18; Length 1404;  
Best Local Similarity 72.5%; Pred. No. 9.6e-210;  
Matches 1013; Conservative 0; Mismatches 384; Indels 0; Gaps 0;

Qy 1 ATGAAACAAACCTGGTGAATCCTGATCANCTCCTGTCATCACAGATCAAGCT 60	Db 1 ATGAAAAUAAATTTTGTAAATTATTTCAATTATTTCAATTAAATTAATCT 60
Qy 61 GCTAACTGTCCTGGAACCGAGACCAACACCGCTGGACAGCTGGAAACC 120	Db 61 GCTAAATTGTCCTGGAAACTGAAACTAACAGCCGATAAGTGTAGCTAGAAC 120
Qy 121 CCTGCTTAAGTGAACTGCTGAAACAATCTACTAACACAACGCTGTGCCTG 180	Db 121 CCTGCAAATTGTCGTTAATGTGAAACTTTAAATTAATGCTGCTGTT 180
Qy 181 CCTGGAGCTTACCTGTACCTGTACCTGTACCTGTACCTGTACCTGTAC 240	Db 181 CCTGGGTGTAGTAGCTGAACTGCTGAAAGAACGGCTGGAGCTCAGCTAAC 240
Qy 241 CCTCCTGCTACCGCTAACCTGTGACCCAGTAACTGTGAACTGCTGCTG 300	Db 241 CCTACCTGTACCTGCTAACCTGTGAACTGCTGCTGCTGCTGCTG 300
Qy 301 ATGGCTGGAGGACTTACCGACTACCTGTACCTGTACCTGTACCTGTAC 360	Db 301 ATGGCTGGAGGACTTACCGACTACCTGTACCTGTACCTGTACCTGTAC 360
Qy 361 AACCTCTAACAGGAAACGCTTACACTAACCTGTGAACTGCTGCTG 420	Db 361 AACCTTATTAATGAAATGGCTAACATTGAACTGCTGCTGCTG 420
Qy 421 CCTGTGAAACCCGGTGGAGGACTCTGAAACGCCGCTGCTGAAACGCCG 480	Db 421 CCTGGTAAACAGAGTGTGGTGTGCTGCTGCTGCTGCTGCTGCTG 480
Qy 481 TGAAACSTGGCTTACCGACTGTTGAAAGTGTGCCGTAACTGAACTG 540	Db 481 TGAACTGCTAACCGACTGTTGAAAGTGTGCCGTAACTGAACTG 540
Qy 541 CGCTCTTACCGACTGTTGAAAGTGTGCCGTAACTGAACTG 600	Db 541 AGATCAATTAAAGTGTAAATGTTAACTGAACTG 600
Qy 601 AACACCCCTTCAACCTGGAAAGCTCAGTGTGAAACGCCGCTGCTGCTG 660	Db 601 AATACCTCTTCAATCCAGSTAALAGTTAATGCTAACCTGT 660
Qy 661 AACGTGGTCAAGGTACCCCTGGAAACGACGCTAACCATACCCCTGACTG 720	Db 661 AATGTGGTCAAGGTACTTGTGTTAATGCTAACCATACCCCTGACTG 720
Qy 721 TGTCCTGAACTGCTGAAACCTACCTGTGCTGAACTGGTGGCTGAG 780	Db 721 TGCCCTGATGGTACTAATGCTGGTAAATGCTGAGAACACTGAA 780
Qy 781 TGTACCAACTGTCCTAACTCTACACAAACGCTCCPAAACTCAACCTGGAAAC 840	Db 781 TGTACTAATGTCCTAACTCTACACAAACGCTCCPAAACTCAACCTGGAAAC 840

RESULT 5  
US-09-498-612-8  
Sequence 8 Application US/09498612  
GENERAL INFORMATION:  
; APPLICANT: GLERTIG, Jacek  
; APPLICANT: DICKENSON JR., Harry W.  
; APPLICANT: CLARK, Theodore G.  
; APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC  
; TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN  
; FILE REFERENCE: 235.00100101  
; CURRENT APPLICATION NUMBER: US/09/498,612  
; PRIOR APPLICATION NUMBER: 60/118,634  
; PRIOR FILING DATE: 1999-02-04  
; PRIOR APPLICATION NUMBER: 60/122,372  
; PRIOR FILING DATE: 1999-03-02  
; PRIOR APPLICATION NUMBER: 60/124,905  
; PRIOR FILING DATE: 1999-03-17  
; PRIOR APPLICATION NUMBER: 60/131,121  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: PCT/US00/02966  
; PRIOR FILING DATE: 2000-02-04  
; SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 8  
; LENGTH: 1404  
; TYPE: DNA  
; ORGANISM: Ichthyophthirius multifiliis  
; US-09-498-612-8

Query Match	55.7%	Score	782.6;	DB	18;	Length	1404;	
Best Local Similarity	72.5%;	Pred. No.	9.6e-210;					
Matches 1013;	Conservative	0;	Mismatches	384;	Indels	0;	Gaps	0;
1	ATGAGAARACATCCTGGTGTACATCATCTCTGTCATCAACGAGTCAACTCT	60						
1	ATGAAAATAATTATTTAAATATTTATTTATTTATTAATTAAATTAAATTCT	60						
61	GCTAACTGCGTGGGAACGAGACCAACACGGCTGGACAGTGGAGAACAC	120						
61	GCTAATGTCGTGTTGAACTGAAGTGTAAACTAACACGCCGSATAACTGTAGGACT	120						
121	CCTGGTAACCTGTGTGAACGTGTCAGAAGACTTCACTAAQACACGCTGCTGCTT	180						
121	CCTGCAAATTTGTGTAAATGTAGTAAATTTATTAATATGCTGTGCTT	180						
181	CCTGGAGCTCTACTGTGACCCCTGTCTCGAGAAAGACGCTGCTGCTAAC	240						
181	CCTGGTGCTGCTAAAGAAACATCAGTGTGACTTCTGCTTAACCAAAT	240						
241	CCTCTGCTACCGCTAACCTGGTACCGCAGTGTAACTGTAACGTTAACG	300						
241	CCACCTGCTACTGCTAACCTGGTACCGCAGTGTAACTGTAACGTTAACG	300						
301	ATCGTGGAGGAGTACCGCAGTACCGCAGTGTAACTGTAACGTTAACG	360						
301	ATTCGAGGTGAGCAACAGATTATTCAGGATAATAACAGAATGTTAATG	360						
361	AACCTACAGAACGAGCCTACTAACTAACCTGGACTCTTACCTGTACCGCT	420						
361	AATTTTATATGAAATGTCCTCAAATTGTTAATGAGGTACTGCTTACAGCAGCTT	420						
421	CCTGTGAAACCGCGTGGAGGAGCTCTGACCCGCTGAAACCCGTGTTACATCGCTAG	480						
421	CCGGTAAACAGATGTTGGTGCAPTGACTGTCGTTACCTGTGCTTACCTGTACCGCTA	480						
481	TGTAACGTGGCTTGTCTACCGAACGGGAGTGTGACCCGACTACGTT	540						
481	TGTAACCTGCGATGTCCTACGGTACTGACTGTGACTGTGACTGTATGTT	540						
541	CGCTCTPCACCGAGTGTGAGTGTGACCTGCTGAACTTCAACCGAAACCGA	600						
541	AGATCATTCACAGAAATGTTAAATGTGACTTAACCTTACTAATGTAATGTT	600						
601	AAACCCCCCTTAACCTGGAAAGTCAGTGTACCCCTGTCCMGTATCAAGGCTGCT	660						
601	AAFACTCCCTTAACCTGGAAAGTCAGTGTACCCCTGTCCMGTATCAAGGCTGCT	660						
661	AACTGGCTCACGGCTACCTGGAAAAGACGCCATACCCGCTTACCTGACCT	720						
661	AAFTGTTGAACTTAACTGTTAGTGTACATTAACCGCATATAATGTTGCA	720						
721	TGCTCTGAGGAGCCATCTGCTGCTGAGTGAACACTGGTGGCTCAGAACCCGAG	780						
721	TGCCCTGTGGTACTAAAGTGTGCTGAGTAAATTTGGTAGCAAAACACTGAA	780						
781	TGTAACCAACTGTGTCCTCAACCTGAGTACCGCTTAACCTCAACCTGGAAAC	840						
781	TGTAACCAACTGTGTCCTCAACCTGAGTACCGCTTAACCTCAACCTGGAAAC	840						
901	GCTGCTACCTGGCTAACAGTGTAACTACGCTGCTGCTGCTGCTGCTGCT	960						
901	GAGGATCAACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	960						
961	GGAGTACCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1020						
961	GGAGTACCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1020						
Db	1021 TTGATGGTAATAATTCTAGCGAAGTAGTGTAGCAGATGCTGCTGCTGCT	1140						
Db	1081 GTTAAAGCGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1140						
Qy	1081 GTGAGGGAGGCTGGTGTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCT	1260						
Qy	1141 GAGTGTCTGCTGAACTGGTGTGACCGACCCCTACCTACAACAGGGCTGCT	1260						
Db	1141 GAATGCCCTGCTGTTACTCACCGATTAAGAGCAACATCTACTATAAAGAGCA	1200						
Db	1201 TCTGAATGTCGCTGCAACTTATACACATTTATACACATTTATACACAT	1320						
Qy	1261 GGAATCGACACCTGACCTGTACCTCTGGAGCTGAGCTGACCTGGAGCT	1320						
Db	1261 GGATGATACATGACTAGTGTAGTAAATTTAACTCTGGCGCTGAACCTAA	1320						
Qy	1321 CCTGAGTCGCTGCTAAGAAACATCAGTGTGACTTCTGCTAATCTCTCTG	1380						
Db	1321 CCTGATCGTAAATGTCGCTGCAACTTATACACATTTATACACATTTATAC	1380						
Db	1381 CTGCTGATCTCTACTA	1397						
Db	1381 TTATTGATTCCTTATA	1397						
	RESULT 6							
	US-09-497-967-44							
	Sequence 44, Application US/09497967							
	GENERAL INFORMATION:							
	Applicant: Clark, Theodore G.							
	Applicant: Dickerson, Jr., Harry W.							
	Applicant: Lin, Tian Long							
	Title of Invention: Ichthyophthirius							
	File Reference: 235.00170101							
	Current Application Number: US/09/497,967							
	Prior Application Number: 60/170101							
	Prior Filing Date: 1999-04-27							
	Prior Application Number: 60/1118, 634							
	Prior Filing Date: 1999-02-04							
	Prior Application Number: 60/122, 372							
	Prior Filing Date: 1999-03-02							
	Prior Application Number: 60/124, 905							
	Prior Filing Date: 1999-03-17							
	Number of SEQ ID NOS: 102							
	Software: PatentIn Ver. 2.1							
	SEQ ID NO 44							
	Length: 1410							
	Type: DNA							
	Organism: Ichthyophthirius multifiliis							
	US-09-497-967-44							
Query Match	55.7%	Score	782.6;	DB	18;	Length	1410;	
Best Local Similarity	72.5%;	Pred. No.	9.6e-210;					
Matches 1013;	Conservative	0;	Mismatches	384;	Indels	0;	Gaps	0;
1	ATGAGAARACATCCTGGTGTACATCATCTCTGTCATCAACGAGTCAACTCT	60						
1	ATGAAAATAATTATTTAAATATTTATTTATTTATTAATTAAATTAAATTCT	60						
61	GCTAACTGCGTGGGAACGAGACCAACACGGCTGGACAGTGGAGAACAC	120						
61	GCTAATGTCGTGTTGAACTGAAGTGTAACTGCTGCTGCTGCTGCTGCT	120						
121	CCTGGTAACCTGTGTGAACGTGTCAGAAGACTTCACTAAACCGCTGCT	180						
121	CCTGATCGTGTGCTACCTGGCCAGAAATAAGATTATGGCTGCTGCT	180						
Db	1021 TTGATGGTAATAATTCTAGCGAAGTAGTGTAGCAGATGCTGCTGCT	1140						
Db	1081 GTTAAAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1140						
Qy	1081 GTGAGGGAGGCTGGTGTGCTGAGTGTGCTGCTGCTGCTGCTGCT	1260						
Db	1081 GTTAAAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260						
Qy	1141 GAGTGTCTGCTGAAACCGCTGCTGCTGCTGCTGCTGCTGCT	1260						
Db	1141 GAATGCCCTGCTGTTACTCACCGATTAAGAGCAACATCTACTATAA	1200						
Db	1201 TCTGAATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCT	1320						
Qy	1261 GGAATCGACACCTGACCTGTACCTCTGGAGCTGAGCTGACCTGGAGCT	1320						
Db	1261 GGATGATACATGACTAGTGTAGTAAATTTAACTCTGGCGCTGAAC	1320						
Qy	1321 CCTGAGTCGCTGCTAAGAAACATCAGTGTGACTTCTGCTGCTATCTCTG	1380						
Db	1321 CCTGATCGTGTAAATGTCGCTGCTGCTGCTGCTGCTGCT	1380						
Db	1381 CTGCTGATCTCTACTA	1397						
Db	1381 TTATTGATTCCTTATA	1397						

Qy 181 CCTGGAGCTTCTACCTGTAACCCCTTGCTCAGAAGAGGACGGCTAGGCCATAAC 240  
 Db 181 CCTGGTGTAGTACTGACCTGGCATAAAGAACATGGCTAACATT 240

Qy 241 CCTCTGTACCCCTAACCTGGACCCAGTCAACGGAACTGGCTCTGGAAACCGCT 300  
 Db 241 CCACCTGGTACTGCTAATTTAGTCACATTAAGTAACCTAACGGCTAACCGCA 300

Qy 301 ATCCTGGAGCTACCGCTACGCTGCTPATCATCACCGAGTGGTGAACCTGGCANC 360  
 Db 301 ATPGCAGGGAGCAAGGATATTGAGCAAGAACTACAGAATGGTTAATGAGAATT 360

Qy 361 AACCTCTCAAAAGAACGCTCTAACCTCACCGTGGACTCTAACCGTGGACTCTGT 420  
 Db 361 AATTTTAAATGAAATGCTCAAATTATGAGGTCTGATCACGGCACAGCT 420

Db 421 CCTGTGAACCCGGTGGAGGAGCTCTGAAACCTGGCTAACATCGTGGCTCA 480  
 Db 421 CCGTAAACAGAGTGGCATGCTGTTAACCTGGCTAAATCCGGTACATGGCATA 480

Qy 481 TGTAAACGTGGCTGTCTACCGAACGGCTGGACGAGGACTAACCGACTACGG 540  
 Db 481 TGTAACCTCGCATGCTTACTGGTACTGCAGTGTGAGTAACCTGATTATCT 540

Qy 541 CCCTCTTACCGAGTGTGAAGTGTGGCTGAACTCTACTAACCGAACCGA 600  
 Db 541 AGATCATCACAGAATGTGTTAATGTGACTTACATTAAGTAAATGTA 600

Qy 601 AACACCCCCCTCAACCTGGAAAGCTCTGACTACGGCTGGCTGTCTGGTATCAAGCCCTGC 660  
 Db 601 AATACTCTTCAATCAGTTAACAGTAAAGTTAATGACACCTGTCCGGCAAACTTGC 660

Qy 661 AACGTGGCTCAGGGPACCTGGAAACGAGCTAACCGTCACTGGCTAGCTGGCT 720  
 Db 661 AATGTTGCTTAAGTGTACTTGGATTAATGATGCTAACATGTAACGTGCA 720

Qy 721 TGTCCTGACGGAAACATCTGCTGGAGTGAACAATGGTAGCAAAACACTGAA 780  
 Db 721 TGTCATTAATGCTCTAACATTAAGTGTAAATAATGGTAGCAAAACACTGAA 780

Qy 781 TGTACCAACCTGCTTAACTCTACACAAACACGGCTGGCTAGAACACCGA 840  
 Db 781 TGTACTTAATGCTCTAACATTAAGTGTAAATAATGGTAGCAAAACACTGAA 840

Qy 841 TCTACCTGCTTGTGCTCTGCTGTAACAGGACTACGGCTGGCTAACGGCTAACCGCTGGAGGA 900  
 Db 841 AGTATGCTTACCTGGCTAACATAAGATTATGCTGAAGCCACAGCTGGT 900

Qy 901 GCTGCTACCCGGCTAACAGGTAAACATGCTGCTGGAGAACGGCTAACCTGCT 960  
 Db 901 GCGCTACTTGGCAAAATAATGTAATATGCTGCTGGTAGTACTGCAATTGCTGT 960

Qy 961 GGAGCTTACCAACTAGTGCTGGAGCTGGAGACTGTGCTGCTAACCTCTAC 1020  
 Db 961 GGAGCAACTAAATGTAATATAAACAGAATGTCTTAATGTCGTAACCTTAT 1020

Qy 1021 TTGACGGAAACAACTCCAGGCTGGATCTCTGCTGTAAGCGTGTCTGCTAACAG 1080  
 Db 1021 TTGATGGAAATATTCTAGGAGGATAGTAGAAGCAAAAGCATGTCAGCAATAAA 1080

Qy 1081 GTGCAAGGGAGCTGGCTAACCCGCTGGAGAACGGCTAACCTGCTGCTAACCGCT 1140  
 Db 1081 GTTAAAGGGCTGTAACATGCTGGTACTGCTAACCTGCTAACCTGCT 1140

Qy 1141 GAGNTCCCTGCTGAAACGGCTGGCTGACGGAAACCCCTACCTAACAGCGCTGT 1200  
 Db 1141 GAATGCCCCTGCTGACTACTACCCGATGAAACAACTTACATTAAGCAGCA 1200

Qy 1201 TCGAGTGTGAAGTGTGCTGCTAACCTAACCCAGAACGGCTGGCT 1260  
 Db 1201 TCTGAATGTTAAATGCTGGCTCCAACTTAAATACAGTGTGGTAGGA 1260

Qy 1261 GGAATCGACACCTGTACCTCTGTAACAGAAGCTGACCTCTGGAGCTAACCTG 1320

RESULT 7  
 US-09-497-967-74  
 Sequence 74, Application US/09497967  
 GENERAL INFORMATION:  
 APPLICANT: Clark, Theodore G.  
 APPLICANT: Dickerson, Jr., Harry W.  
 APPLICANT: Lin, Tian-Long  
 TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
 ICHTHIOPHTHIRIUS  
 FILE REFERENCE: 235.00170101  
 CURRENT APPLICATION NUMBER: US/09/497, 967  
 PRIORITY NUMBER: 60/131, 121  
 PRIOR FILING DATE: 1999-04-27  
 PRIORITY NUMBER: 60/118, 634  
 PRIOR FILING DATE: 1999-02-04  
 PRIORITY NUMBER: 60/122, 372  
 PRIOR FILING DATE: 1999-03-02  
 PRIORITY NUMBER: 60/124, 905  
 PRIOR FILING DATE: 1999-03-17  
 NUMBER OF SEQ ID NOS: 102  
 SEQ ID NO: 74  
 LENGTH: 138  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURES:  
 OTHER INFORMATION: Description of Artificial Sequence;  
 OTHER INFORMATION: Oligonucleotide primers  
 US-09-497-967-74

Query Match 9.8%; Score 138; DB 18;  
 Best Local Similarity 100.0%; Pred No. 5; 3e-28;  
 Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 313 GCTACCGACTACCGCTGCTATCATCACCGAGTGTGAACTCTCGCATCAACTTCTAACAA 372  
 Db 1 GCTACCGACTACCGCTGCTATCATCACCGAGTGTGAACTCTCGCATCAACTTCTAACAA 60

Qy 373 GAGACGGCTCCTAACCTAACGCTGGAGCTTACCTGTACCGCTGTCCGTGACCGC 432  
 Db 61 GAGACGGCTCCTAACCTAACGCTGGAGCTTACCTGTACCGCTGTCCGTGACCGC 120

Qy 433 GTGGGAGGAGCTGACC 450  
 Db 121 GTGGGAGGAGCTGACC 138

RESULT 8  
 US-09-497-967-75/C  
 Sequence 75, Application US/09497967  
 GENERAL INFORMATION:  
 APPLICANT: Clark, Theodore G.  
 APPLICANT: Dickerson, Jr., Harry W.  
 APPLICANT: Lin, Tian-Long  
 TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
 ICHTHIOPHTHIRIUS  
 FILE REFERENCE: 235.00170101  
 CURRENT APPLICATION NUMBER: US/09/497, 967  
 PRIORITY NUMBER: 60/131, 121

PRIOR FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/118,634  
PRIOR FILING DATE: 1999-02-04  
PRIOR APPLICATION NUMBER: 60/122,372  
PRIOR FILING DATE: 1999-03-02  
PRIOR APPLICATION NUMBER: 60/124,905  
PRIOR FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 102  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 75  
LENGTH: 123  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:  
OTHER INFORMATION: Oligonucleotide Primers  
US-09-497-967-75

Query Match Score 123; DB 18; Length 123;  
Best Local Similarity 100.%; Pred. No. 8.7e-24;  
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 430 CGCGTGGAGGAGCTGACCCGCTGAAACGCTGCTACATCGGTCAAGCTG 489  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 123 CGCGTGGAGGAGCTGACCCGCTGAAACGCTGCTACATCGGTCAAGCTG 64

Dy 490 CCTTGTCCTACCGAACCGCTCTGACGAGACTACAGTGGCTCTTC 549  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Ddb 63 GCTTGTCCTACGGAACCGCTCTGACGAGACTACAGTGGCTCTTC 4

Qy 550 ACC 552  
|||  
Db 3 ACC 1

RESULT 9  
US-09-497-967-70  
; Sequence 70, Application US/09497967  
; GENERAL INFORMATION:  
; APPLICANT: Clark, Theodore G.  
; APPLICANT: Dickerson, Jr., Harry W.  
; APPLICANT: Lin, Tian-Long  
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS  
; FILE REFERENCE: 235..0017/0101  
; CURRENT APPLICATION NUMBER: US/09/497,967  
; CURRENT FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/131,121  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/118,634  
; PRIOR FILING DATE: 1999-02-04  
; PRIOR APPLICATION NUMBER: 60/122,372  
; PRIOR FILING DATE: 1999-03-02  
; PRIOR APPLICATION NUMBER: 60/124,905  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 70  
; LENGTH: 117  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: Oligonucleotide Primers  
US-09-497-967-70

Query Match Score 105; DB 18; Length 117;  
Best Local Similarity 100.%; Pred. No. 1e-18;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGAGAAACACATCCTGGTATCTCATCTCTGTCATCACAGATAAGCT 60  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Qy 12 ATGAGAAACACATCCTGGTATCTCATCTCTGTCATCACAGATAAGCT 72  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 10  
US-09-497-967-71/C  
; Sequence 71, Application US/09497967  
; GENERAL INFORMATION:  
; APPLICANT: Clark, Theodore G.  
; APPLICANT: Dickerson, Jr., Harry W.  
; APPLICANT: Lin, Tian-Long  
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS  
; FILE REFERENCE: 235..0017/0101  
; CURRENT APPLICATION NUMBER: US/09/497,967  
; CURRENT FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/131,121  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/118,634  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 72

Query Match Score 104; DB 18; Length 104;  
Best Local Similarity 100.%; Pred. No. 1e-18;  
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 84 GACCAACACCCTGGACGGAGCACCTGGAAACCCCTGTAACCTGCTGA 143  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 104 GACCAACACCCTGGACGGAGCACCTGGAAACCCCTGTAACCTGCTGA 45

Qy 144 GAGGAACCTCTACTACACAACGCTGTCCTTCCGGCTGGAG 187  
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 44 GAGGAACCTCTACTACACAACGCTGTCCTTCCGGCTGGAG 1

RESULT 11  
US-09-497-967-72  
; Sequence 72, Application US/09497967  
; GENERAL INFORMATION:  
; APPLICANT: Clark, Theodore G.  
; APPLICANT: Dickerson, Jr., Harry W.  
; APPLICANT: Lin, Tian-Long  
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS  
; FILE REFERENCE: 235..0017/0101  
; CURRENT APPLICATION NUMBER: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/131,121  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/118,634  
; PRIOR FILING DATE: 1999-03-17  
; PRIOR APPLICATION NUMBER: 60/122,372  
; PRIOR FILING DATE: 1999-03-02  
; PRIOR APPLICATION NUMBER: 60/124,905  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 72

Query Match Score 104; DB 18; Length 117;  
Best Local Similarity 100.%; Pred. No. 1e-18;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

LENGTH: 100  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: Oligonucleotide primers  
US-09-497-967-72

Query Match 7.1%; Score 100; DB 18; Length 100;  
Best Local Similarity 100.0%; Pred. No. 2.5e-17;  
Matches 100; Conservative 0; Mismatches 0; Gaps 0;  
Indels 0;

Qy 165 CGCnGCTGCTTTGGCTGGAGGCTCTACCTGTACCCCTGTCAGAAAGGACGC 224  
Db 1 CCGRGCTGCTTGGCTGGAGGCTCTACCTGTACCCCTGTCAGAAAGGACGC 60

Query Match 7.1%; Score 100; DB 18; Length 100;  
Best Local Similarity 100.0%; Pred. No. 2.5e-17;  
Matches 100; Conservative 0; Mismatches 0; Gaps 0;  
Indels 0;

Qy 225 TGGAGCTAGGCCCTAACCTCTCGCTAACCTAACCTAACCTGGTAACCTGGTG 264  
Db 61 TGGAGCTAGGCCCTAACCTCTCGCTAACCTAACCTGGTAACCTGGTG 100

RESULT 12  
US-09-497-967-79/C  
Sequence 79, Application US/09497967  
GENERAL INFORMATION:  
APPLICANT: Clark, Theodore G.  
APPLICANT: Dickerson, Jr., Harry W.  
APPLICANT: Lin, Tian-Long  
TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
TITLE OF INVENTION: ICHTHYOPHTHIRIUS  
FILE REFERENCE: 235.00170101  
CURRENT APPLICATION NUMBER: US/09/497,967  
CURRENT FILING DATE: 2000-02-04  
PRIORITY NUMBER: 60/131,121  
PRIORITY FILING DATE: 1999-04-27  
PRIORITY NUMBER: 60/118,634  
PRIORITY FILING DATE: 1999-02-04  
PRIORITY NUMBER: 60/122,372  
PRIORITY FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 102  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 79  
LENGTH: 100  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: Oligonucleotide primers  
US-09-497-967-79

Query Match 7.1%; Score 100; DB 18; Length 100;  
Best Local Similarity 100.0%; Pred. No. 2.5e-17;  
Matches 100; Conservative 0; Mismatches 0; Gaps 0;  
Indels 0;

Qy 753 GAACAATGGCTGGCTAACCTGGAACACTAACCTGCTAACCTCACACAA 812  
Db 100 GAACAATGGGGTCAACCTGGAACACTAACCTGCTAACCTCACACAA 41

Query Match 7.1%; Score 100; DB 18; Length 100;  
Best Local Similarity 100.0%; Pred. No. 2.5e-17;  
Matches 100; Conservative 0; Mismatches 0; Gaps 0;  
Indels 0;

Qy 813 CAACCGCTCCCTAACCTCAACCCCTGGAAACTAACCTGCTGCTG 852  
Db 40 CAACCGCTCCCTAACCTCAACCCCTGGAAACTAACCTGCTGCTG 1

RESULT 13  
US-09-497-967-76  
Sequence 76, Application US/09497967  
GENERAL INFORMATION:  
APPLICANT: Clark, Theodore G.  
APPLICANT: Dickerson, Jr., Harry W.  
APPLICANT: Lin, Tian-Long  
TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF  
FILE REFERENCE: 235.00170101  
CURRENT APPLICATION NUMBER: US/09/497,967  
CURRENT FILING DATE: 2000-02-04  
PRIORITY NUMBER: 60/131,121  
PRIORITY FILING DATE: 1999-04-27  
PRIORITY NUMBER: 60/118,634  
PRIORITY FILING DATE: 1999-02-04  
PRIORITY NUMBER: 60/122,372  
PRIORITY FILING DATE: 1999-03-02  
PRIORITY NUMBER: 60/124,905  
NUMBER OF SEQ ID NOS: 102  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 73  
LENGTH: 95  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: Oligonucleotide primers  
US-09-497-967-73

Query Match 6.8%; Score 95; DB 18; Length 95;  
Best Local Similarity 100.0%; Pred. No. 6.5e-16;  
Matches 95; Conservative 0; Mismatches 0; Gaps 0;

Qy 242 CTCCGGTACCGCTAACCTGGTACCCAGTGTAACTGAACTGGTCTCGCTGAACTGCTAACCTGAAACCCGCTA 301

Db 95 CTCCTGCTACCGCTAACCTGGTACCCAGTGAACTGAAGTGTCCCTGGAAACCGCTA 36  
 Qy 302 TCGCTGGAGGAGTACCGACTAGCTGTATATC 336  
 Db 35 TCGCTGGAGGCTACCGACTAGCTGTATATC 1

RESULT 15  
 US-09-497-967-77/c  
 ; Sequence 77, Application US/09497967  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Clark, Theodore G.  
 ; APPLICANT: Dickerson, Jr., Harry W.  
 ; APPLICANT: Lin, Tian-Long  
 ; TITLE OF INVENTION: ICHTHIOPHTHIRITUS  
 ; FILE REFERENCE: 235.00170101  
 ; CURRENT FILING DATE: 2000-02-04  
 ; PRIOR APPLICATION NUMBER: US/09/497,967  
 ; PRIOR FILING DATE: 1999-04-27  
 ; PRIOR APPLICATION NUMBER: 60/131,121  
 ; PRIOR FILING DATE: 1999-04-27  
 ; PRIOR APPLICATION NUMBER: 60/118,634  
 ; PRIOR FILING DATE: 1999-02-04  
 ; PRIOR APPLICATION NUMBER: 60/122,372  
 ; PRIOR FILING DATE: 1999-03-02  
 ; PRIOR APPLICATION NUMBER: 60/124,905  
 ; PRIOR FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 102  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO: 77  
 ; LENGTH: 95  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence:  
 ; OTHER INFORMATION: Oligonucleotide primers  
 US-09-497-967-77

Query Match 6.8%; Score 95; DB 18; Length 95;  
 Best Local Similarity 100.0%; Pred. No. 6.5e-16;  
 Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 607 CCTTTCAACCTGGAAAGTCAGTGTACCCCTGCCCCCTAAGCTGTAAACGTG 666  
 Db 95 CCTTTCAACCTGGAAAGTCAGTGTACCCCTGCCCCCTAAGCTGTAAACGTG 36  
 Qy 667 GCTCAGGCTACCCCTGGGAAACGAGCTTACCATCAC 701  
 Db 35 GCTCAGGCTACCCCTGGGAAACGAGCTTACCATCAC 1

Search completed: February 17, 2003, 01:35:57  
 Job time : 2271.72 secs